BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

BYATARAYANAPURA DIVISION

BYATARAYANAPURA SUB DIVISOIN

Name of the Work : **Improvements to Roads and Drains at Vidyasagara Govt School Back Side Roads in Ward No 06 Thanisandra**

EMB

Job Code : **006-20-000015**

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1st and Part Bill

BRUHATH BANGALORE MAHANAGARAPALIKE
YELAHANKA ZONE
1st and Final bill

Name of work: Improvements to Roads and Drains at Vidyasagara Govt School Back Side Roads in Ward No 06 Thanisandra

Work Order No: BBMP/EE/BTP/WO/143/2020-21 dt: 26.11.2020

JOB NUMBER: 006-21-000015

Estimate Cost: 100.00 lakhs.

Name of Contractor : Sri. Muniraju B.M

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. **Earthwork excavation by manual means for roads,** drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(P.No-143 &136 ,I No-19.1&17.4& 17.1) 5km lead= 57+2.0x1.28x5 =69.80								
		cum							
	Qty Recorded as per Premeasurement Item No. Page No.						**784.24**	217.96	**170932.95**
2	KSRRB M2100 PCC 1 KSRRB M2100-10. Providing and laying Plain cement concrete of mix1:3:6 with OPC cement @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days Including cost of materials,labour, HOM curing form work, Scaffolding and Centering complete as per specifications.MORTH Specification No. 2100 Pg no:222 Item no:27.18								
		cum							
	Qty Recorded as per Premeasurement Item No. Page No.						**419.29**	5692.45	**2386787.36**
3	Providing laying plain/ reinforced cement concrete for side Drains Using M20 nominal mix Concrete with OPC at 300kgs.With 20mm and Down size granite metal coarse aggregate at 0.69cum and fine aggregate at 0.43cum Machne mixed, well compacted for wall and Bottom including centering shuttering,cost of materials,HOM of Machinery,Curing Etc.,Complete Excluding cost of Steel as per morth MORTH specification No. 1500, 1700, 2200. Including Cost of material, Labour, HOM complete as per Specification-WALL & Bottom thickness 15Cm(Item No 37.59.2 page no 271)								
A	For Drain bottom raft								
a	school back side main road W 1517	cum	1	29.20	1.25	0.15	5.48		
			1	26.90	1.25	0.16	5.38		
			1	26.50	1.25	0.15	4.97		
			1	25.40	1.25	0.15	4.76		
			1	10.80	1.25	0.15	2.03		
b	Vidyasagar school Back side cross road-1 W1058		1	30.00	1.20	0.15	5.40		
			1	30.00	1.20	0.15	5.40		
			1	30.00	1.20	0.15	5.40		
			1	3.20	1.20	0.15	0.58		

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	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	cross road -2 W1052		1	30.00	1.20	0.15	5.40		
			1	30.00	1.20	0.15	5.40		
d	cross road -3 W1046		1	23.25	1.20	0.15	4.19		
			1	30.00	1.20	0.15	5.40		
			1	30.00	1.20	0.15	5.40		
e	Cross road -6 W1821 (temple road)		1	26.00	1.20	0.15	4.68		
	L/s Drain		1	30.00	1.15	0.15	5.18		
			1	30.00	1.15	0.15	5.18		
			1	10.90	1.15	0.15	1.88		
	R/s Drain		1	30.00	1.15	0.15	5.18		
			1	30.00	1.15	0.15	5.18		
			1	14.50	1.15	0.15	2.50		
	end Drain		1	3.00	1.15	0.15	0.52		
			1	20.00	1.15	0.15	3.45		
			1	10.00	1.15	0.15	1.73		
B	**For Culverts**								
	Cd1		1	5.60	1.80	0.20	2.02		
	Cd2		1	3.70	1.80	0.20	1.33		
	Cd3		1	4.40	1.80	0.20	1.58		
	Cd4		1	5.20	1.80	0.20	1.87		
C	For Drain side wall								
a	school back side main road W 1517	cum	2	29.20	0.15	0.75	6.57		
			2	26.90	0.15	0.85	6.86		
			2	26.50	0.15	0.85	6.76		
			2	25.40	0.15	0.85	6.48		
			2	10.80	0.15	0.75	2.43		
b	Vidyasagar school Back side cross road-1 W1058		2	30.00	0.15	0.75	6.75		
			2	30.00	0.15	0.75	6.75		
			2	30.00	0.15	0.75	6.75		
			2	3.20	0.15	0.75	0.72		
c	cross road -2 W1052		2	30.00	0.16	0.85	8.16		
			2	30.00	0.16	0.85	8.16		
			2	23.25	0.15	0.75	5.23		
d	cross road -3 W1046		2	30.00	0.15	0.75	6.75		
			2	30.00	0.15	0.85	7.65		
			2	26.00	0.15	0.85	6.63		
e	Cross road -6 W1821 (temple road)								
	L/s Drain		2	30.00	0.15	0.75	6.75		
			2	30.00	0.15	0.75	6.75		
			2	10.90	0.15	0.85	2.78		
	R/s Drain		2	30.00	0.15	0.75	6.75		
			2	30.00	0.15	0.75	6.75		
			2	14.50	0.15	0.85	3.70		
	end Drain		2	3.00	0.15	0.75	0.68		
			2	20.00	0.15	0.75	4.50		
			2	10.00	0.15	0.75	2.25		

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	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	For Culverts								
	Cd1		2	5.60	0.35	0.75	2.94		
	Cd2		2	3.70	0.35	0.80	2.07		
	Cd3		2	4.40	0.35	0.75	2.31		
	Cd4		2	5.20	0.35	0.75	2.73		
						Total Qty	251.03	7423.00	1863430.94

Assistant Engineer
Ward No. 06

Assistant Executive Engineer
Byrarayanapura Sub Division

4	KSRB M2200-6 Providing **T.M.T bars Fe 500 steel reinforcement** for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. MORTH Specification NO.1600&2200Specification No. Pg No.229 Item No.28.8.2								
		Tonne							
	Qty Recorded as per Premeasurement Item No. Page No.						**15.48**	68292.74	1057171.615
5	Providing and Fixing **pre cast covering Slab** made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)								
a	school back side main road W 1517	**cum**	1	29.20	0.90		26.28		
			1	26.90	0.90		24.21		
			1	26.50	0.90		23.85		
			1	25.40	0.90		22.86		
			1	10.80	0.90		9.72		
b	Vidyasagar school Back side cross road-1 W1058		1	30.00	0.75		22.50		
			1	30.00	0.75		22.50		
			1	30.00	0.75		22.50		
			1	3.20	0.75		2.40		
c	cross road -2 W1052		1	30.00	0.75		22.50		
			1	30.00	0.75		22.50		
			1	23.25	0.75		17.44		
d	cross road -3 W1046		1	30.00	0.75		22.50		
			1	30.00	0.75		22.50		
			1	26.00	0.75		19.50		
e	Cross road -6 W1821 (temple road)								
	L/s Drain		1	30.00	0.75		22.50		
			1	30.00	0.75		22.50		
			1	10.90	0.75		8.18		
	R/s Drain		1	30.00	0.75		22.50		
			1	30.00	0.75		22.50		
			1	14.50	0.75		10.88		
	end Drain		1	3.00	0.75		2.25		
			1	20.00	0.75		15.00		

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	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
			1	10.00	0.75		7.50		
	Missing slabs		2	14.00	0.75		21.00		
			2	12.00	0.75		18.00		
			2	20.50	0.75		30.75		
							507.31	2453.62	1244739.828

Assistant Engineer
Ward No. 06

Assistant Executive Engineer
Byatarayanapura Sub Division

6	Providing and fixing pre cast covering Slab 230mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer in charge								
	CD1	sqm	1	5.60	1.20		6.72		
	Cd2		1	3.70	1.20		4.44		
	Cd3		1	4.40	1.20		5.28		
	Cd4		1	5.20	1.20		6.24		
	Missing Slabs		1	5.40	1.20		6.48		
			1	5.40	1.50		8.10		
					Total Qty		37.26		
					Qty Limited to =		**37.14**	5688.36	**211266.00**

Assistant Engineer
Ward No. 06

Assistant Executive Engineer
Byatarayanapura Sub Division

7	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 10km lead= (I No-19.14,P No-143)								
	cum								
	Qty Recorded as per Premeasurement Item No. Page No.						**933.39**	59.07	**55135.00**
8	KSRRB 300-58. Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications.(I No-19.64,P No-147)								
	cum								
	Qty Recorded as per Premeasurement Item No. Page No.						**2074.20**	6.68	**13856.00**
9	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications Clause 401 of MORTH V Revision.(I No-20.5,P No-153)								
	cum								
	Qty Recorded as per Premeasurement Item No. Page No.						**311.13**	2094.47	**651652.45**

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	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	Cement concrete pavement.Construction of un-reinforced plain cement concrete for pavement, using a grade concrete M30 over a prepared base with OPC coarse aggregate @ 0.69cum fine aggregate @ 0.46cum,coarse and fine aggregate confirming to IS:383-2016,with superplastisiser @3lts confirming to IS9103-2008.mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine,and curing including cost of all materials,labour,hire charges of machineries,all lead and lift charges etc., complete as per specifications. - do with OPC at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum Pg No.176Item No.22.6.1								
a	**Vidyasagar Govt. School Back side cross road-1 W1058**	cum	1	15.00	5.60+5.00 / 2	0.15	11.93		
			1	5.10	5.00+5.00 / 2	0.15	3.83		
			1	6.50	4.05+3.55 / 2	0.15	3.71		
			1	6.50	5.50+5.20 / 2	0.15	5.22		
			1	4.90	3.70+3.60 / 2	0.15	2.68		
			1	15.00	5.05+5.00 / 2	0.15	11.31		
			1	15.00	5.00+4.45 / 2	0.15	10.63		
			1	14.40	4.45+4.10 / 2	0.15	9.23		
b	**cross road -2 W1052**		1	15.00	4.60.4.50 / 2	0.15	10.24		
			1	15.00	4.50+4.70 / 2	0.15	10.35		
			1	15.00	4.70+4.70 / 2	0.15	10.58		
			1	15.00	4.70+4.75 / 2	0.15	10.63		
			1	15.00	4.75+4.90 / 2	0.15	10.86		
			1	8.40	4.90+5.10 / 2	0.15	6.30		
c	**cross road -3 W1046**		1	15.00	4.90+4.30 / 2	0.15	10.35		
			1	15.00	4.30+4.20 / 2	0.15	9.56		

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	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
			1	15.00	4.20+4.40	0.15	9.68		
					2				
			1	15.00	4.40+4.35	0.15	9.84		
					2				
			1	15.00	4.35+4.55	0.15	10.01		
					2				
			1	10.60	4.55+4.45	0.15	7.16		
					2				
d	HP school cross road -4 W1799		1	15.00	5.20+5.00	0.15	11.48		
					2				
			1	15.00	5.00+4.70	0.15	10.91		
					2				
			1	15.00	4.70+4.70	0.15	10.58		
					2				
			1	15.00	4.70+4.20	0.15	10.01		
					2				
			1	7.80	4.70+4.00	0.15	5.09		
					2				
			1	6.65	3.60+5.90	0.15	4.74		
					2				
			1	8.80	5.20+5.20	0.15	6.86		
					2				
			1	5.00	3.10+3.10	0.15	2.33		
					2				
e	**cross road -5**		1	15.00	3.80+3.80	0.15	8.55		
					2				
			1	15.00	4.30+4.35	0.16	10.38		
					2				
			1	7.00	4.35+4.30	0.15	4.54		
					2				
f	**Cross road -6 W1821 Temple road**		1	5.00	8.70+8.80	0.15	6.56		
	Ch 0.00 to 61.00 mtr				2				
			1	15.00	7.00+6.15	0.16	15.78		
					2				
			1	15.00	6.15+5.20	0.15	12.77		
					2				
			1	15.00	5.20+4.20	0.15	10.58		
					2				
			1	10.50	4.20+3.50	0.15	6.06		
					2				
					Actiual Qty		**311.29**		
					Limited to		**311.13**	5470.99	**1702189.12**
								Grand Total	**9357132.00**
								For 12% Applicable GST	**1122856.00**
								Total Amount	**10479988.00**

24/03/2021
Assistant Engineer
ಸಹಾಯಕ ಅಭಿಯಂತರರು
Ward No. 06
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

24/3/2021
Assistant Executive Engineer
ಸಹಾಯಕ ಕಾರ್ಯ ನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
Byatarayanapura Sub Division
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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